

Subject Index: Volume 29, 2004

Accidental injections, from neuraxial anesthesia, 341
 Accufuser Plus flow-rate restrictor, for portable infusion pumps, 371
Acinetobacter baumanii intrathecal pump catheter-related infection, transverse myelitis and, 503(letter)
 Addiction, pain management for chronic opioid-consuming patients and, 576
 Age, maximum recommended local anesthetic doses and, 564
 Ambulatory surgery pain
 at-home perineural infusions for, 1
 interscalene perineural ropivacaine for, 9
 Amitriptyline, for prolonged intrathecal anesthesia, 434
 AMPA receptors, neurobiology of infant pain and, 36
 Amperage, of stimulating catheter for paravertebral block placement, 230
 Analgesia. *See also specific analgesics and analgesic techniques*
 intrathecal baclofen for, 269
 for mitral stenosis during pregnancy, 610
 outcome, postoperative cognitive function and, 257
 peripheral opioid, in laparoscopic cholecystectomy, 424
 Anatomical posterior approach, popliteal sciatic nerve block, 290
 Anesthesiologists, subjective perceptions of injection pressure during peripheral nerve block, 201
 Anesthetics. *See also specific anesthetics and anesthetic techniques*
 long-acting, antidepressants as, 277
 for mitral stenosis during pregnancy, 610
 Animal studies
 antidepressants as long-acting local anesthetics, 277
 comparative intrathecal neurotoxicity of local anesthetics, 446
 comparison vasodilation effect induced by sympathetic block, 441
 electrophysiologic effects of injectate on peripheral nerve stimulation, 189
 intraneuronal injection, high injection pressure and, 417
 with intrathecal baclofen, 269
 local anesthetic properties of tricyclic antidepressants, 286
 locating target nerve and injectate spread in sciatic nerve block, 194
 sympathetic block dexmedetomidine effect on mepivacaine-induced vasodilation, 323
 Anterior approach, sciatic nerve block, thigh rotation and, 32
 Antidepressants
 as long-acting local anesthetics, 277
 tricyclic, local anesthetic properties of, 286
 Aortic stenosis, neuraxial block in, 496
 Arterial blood flow, induced by sympathetic block, 441
 Audiometry, hearing loss after spinal anesthesia, 430
 Authors, unethical behavior of, 90
 Axillary brachial plexus block
 duration, methylprednisolone and, 380(letter)
 forearm tremor during, 510(letter)
 with multiple nerve stimulation, pain perceptions during, 328
 percutaneous electrode guidance of, 206
 Back pain
 from neuraxial anesthesia, 341
 radiofrequency lumbar facet denervation, 400
 selective nerve root blocks for, 243
 Baclofen, intrathecal for pain management, 269
 Barbiturate, postoperative hyperalgesia, 70(letter)
 Bier block, in complex regional pain syndrome, 408
 Biologic models, needle characteristics in, 476
 Book reviews
 Pain Medicine: A Comprehensive Review (Raj), 77
 Peripheral Nerve Blocks: Principles and Practice (Hadzic and Vloka), 385
 Peripheral Nerve Blocks on DVD: Lower Limbs (Delbos et al.), 512
 Brachial plexus block
 axillary. *See Axillary brachial plexus block*
 cervical paravertebral, for obese patient, 227
 distal vs. proximal approach, 520
 Horner's syndrome after, 378(letter)
 infraclavicular. *See Infraclavicular plexus block*
 interscalene, with ropivacaine and bupivacaine, 557
 neurostimulation, interpreting infraclavicular motor responses, 618(letter)
 single injection, 520, 534
 Brachial plexus cords, motor responses to neurostimulation, 125
 Bupivacaine
 with ketamine for caudal anesthesia, 28
 low-dose, hyperbaric vs. hypobaric, 17
 nerve blocks vs. patient-controlled analgesia after total-hip arthroplasty, 102
 with ropivacaine for interscalene brachial plexus block, ECG effects, 557
 toxicity, lipid emulsions for prevention of, 73(letter), 74(letter)
 vasoactivity, epinephrine adjuvant concentration and, 307
 vs. ropivacaine
 for cesarean delivery, 221
 effect on arterial blood flow induced by sympathetic block, 441
 for interscalene brachial plexus block, 539
 Cancer patients, hematoma formation after neuraxial blocks, 378(letter)
 Carotid endarterectomy, ropivacaine dosage for cervical plexus block, 312

Catheters

- continuous suprascapular nerve block, transcutaneous placement method, 75(letter)
- difficult lateral popliteal insertion in peripheral vascular disease, ultrasound guidance for, 368
- epidural. *See* Epidural catheters
- intrathecal
 - implantation, traumatic syrinx after, 606
 - inflammatory mass, spinal cord compression from, 237
 - lumbar plexus tip position, fluoroscopic determination of, 72(letter)
 - perineural, placement complications, 174(letter)
 - psoas compartment, misplacement in subarachnoid space, 60
 - stimulating vs. nonstimulating perineural placement, 212
 - thoracic epidural, placement in children, 83
- Cauda equina syndrome synovial cysts, lithotomy position and, 234
- Caudal anesthesia
 - ketamine with bupivacaine for, 28
 - for thoracic epidural catheter in children using electrical nerve stimulator, 92
- C-Bloc flow-rate restrictor, for portable infusion pumps, 371
- Central poststroke pain syndrome, mimicked by conversion disorder after spinal cord stimulation, 164
- Cerebrospinal fluid return, success rate for percutaneous retrogasserian glycerol rhizotomy and, 592
- Cervical paravertebral block
 - continuous, using minimal current for stimulating catheter placement, 230
 - for shoulder surgery in obese patient, 227
- Cervical plexus block, for carotid endarterectomy, ropivacaine dosage, 312
- Cervicogenic headache management, for pain specialist, 463
- Cesarean delivery
 - under spinal anesthesia, piriformis syndrome after, 364
 - spinal ropivacaine vs. bupivacaine for, 221
- Children. *See also* Infants
 - electrical nerve stimulator for thoracic epidural catheter caudal insertion, 92
 - inguinal herniotomy, ketamine with bupivacaine for caudal anesthesia, 28
 - thoracic epidural catheter placement in, 83
- Cholecystectomy, laparoscopic, peripheral opioid analgesia in, 424
- Clinical hypnosis, modulation of fMRI signal intensities and pain perception in thermal stimulation paradigm, 549
- Clonidine, with intrathecal baclofen, 269
- Cluster headache management, for pain specialist, 463
- Cognitive function, postoperative, 257
- Colon surgery, anesthesia and analgesia for, 52
- Combined spinal-epidural technique, for vaginal hysterectomy in Machado-Joseph disease patient, 352
- Complex regional pain syndrome, Bier block with methylprednisolone and lidocaine, 408

Complications

- accidental subdural injection during lumbar epidural block, 45
- anesthesia and analgesia for colon surgery, 52
- antidepressants as long-acting local anesthetics, 277
- bupivacaine toxicity, lipid emulsions for prevention of, 73(letter), 74(letter)
- femoral nerve injury in psoas compartment block, 361
- hearing loss after spinal anesthesia, 430
- infectious, after regional anesthesia, 70(letter)
- injection pressures during simulated peripheral nerve block, 201
- intrathecal baclofen, 269
- late-onset phantom-limb sensation during regional anesthesia, 168
- lower lobe collapse during interscalene nerve block at-home, 65
- misplacement of psoas compartment catheter in subarachnoid space, 60
- myotoxicity of local anesthetics, 333
- neurologic deficits, labor analgesia and, 341
- from neurolytic celiac plexus blocks, preventability of, 377(letter)
- panic attacks and hyperventilation may mimic local anesthesia toxicity, 617(letter)
- paralysis after transforaminal epidural injection, 494
- perineural catheter placement, 174(letter)
- from peripheral nerve stimulators, 185
- piriformis syndrome after spinal anesthesia for cesarean section, 364
- pneumothorax after shoulder arthroscopy, 382(letter)
- regional anesthesia, fears and perceptions of, 96
- spinal cord compression from intrathecal catheter-tip inflammatory mass, 237
- traumatic syrinx after intrathecal catheter implantation, 606
- Conduction anesthesia, single-injection insulated block needles for, 476
- Continuous peripheral nerve blocks
 - femoral, comparison of nonstimulating vs. stimulating catheter-guidance for, 212
 - fluoroscopic determination of catheter tip position for, 72(letter)
 - interscalene ropivacaine
 - dosing regimens for, 9
 - lower lobe collapse during, 65
 - minimal current for stimulating catheter placement, 230
 - psoas compartment, reliability of, 172(letter)
- Continuous spinal anesthesia, after unintentional dural puncture, 381(letter)
- Conversion disorder, mimicking Dejerine-Roussy syndrome after spinal cord stimulation, 164
- Crile, Dr. George, contributions of, 600
- CT guidance for neurolytic celiac plexus blocks, preventability of complications, 377(letter)
- Deafferentation, late-onset phantom-limb sensations and, 168
- Dejerine-Roussy syndrome, mimicked by conversion disorder after spinal cord stimulation, 164

Dementia, postoperative, 257

Dexmedetomidine, prolongation of mepivacaine sympathetic block in dogs, 323

Dextrose in water, electrophysiologic effects on peripheral nerve stimulation, 189

Diagnostic criteria, for headaches, 463

Diaphragmatic excursion, after modified Raj infraclavicular block, 110

Dosage, maximum recommended local anesthetic doses, 564

Dural puncture, unintentional, continuous spinal anesthesia after, 381(letter)

Duration

- of axillary plexus block, methylprednisolone and, 380(letter)
- dexmedetomidine prolongation of mepivacaine sympathetic block in dogs, 323

Education

- to alleviate fears/misperceptions of regional anesthesia, 96
- learning curve for simulated ultrasound guidance interventional task, 544
- perioperative pain control, 382(letter)

Electrical nerve stimulator, for thoracic epidural catheter caudal insertion in children, 92

Electrophysiology

- of flush injectates, stimulating catheter and, 509(letter)
- injectate effects on peripheral nerve stimulation, 189

Endoscopy, *in situ* imaging for paravertebral block, 596

Epidural analgesia

- for colon surgery, 52
- postoperative, morbidity/mortality of Medicare patients and, 525
- transforaminal injection of steroids, 397

Epidural blood patch

- development and acceptance of, 136
- history of, 81

Epidural catheters

- insertion, for minimizing postdural puncture headache, 299(letter)
- measurement markings, differences in, 510(letter)
- thoracic, placement in children, 83

Epidural injection, transforaminal, paralysis after, 494

Epidural nerve blocks

- in herpes zoster and postherpetic neuralgia, 454
- inadequate spread, 7
- lumbar, accidental subdural injection during, 45
- pain management for chronic opioid-consuming patients, 576

Epinephrine, adjuvant concentration, effect on vasoactivity of local anesthetics, 307

Ergot derivatives, for migraine management, 463

Ethics, unethical behavior of authors, 90

European Society of Regional Anaesthesia & Pain Therapy, XXIII Annual Congress proceedings, S2

Evidence-based medicine

- anesthesia and analgesia for colon surgery, 52
- anesthetic and analgesic management of mitral stenosis during pregnancy, 610
- neuraxial blockade for aortic stenosis, 496

Fascicular injury, high injection pressure for intraneuronal injection and, 417

Fear, of regional anesthesia, 96

Femoral nerve block

- nonstimulating vs. stimulating catheter guidance, 212
- vs. patient-controlled analgesia after total-hip arthroplasty, 102

Femoral nerve injury

- complicating psoas compartment block, 361
- from neuraxial anesthesia, 341

Fentanyl regional anesthesia, for very-low-birth weight neonate, 58

Flow-rate restrictor, temperature-dependent for portable infusion pumps, 371

Fluoroscopy, determination of catheter tip position for continuous peripheral nerve block, 72(letter)

Functional magnetic resonance imaging, signal intensities and pain perception, clinical hypnosis modulation of, 549

GABA receptors, neurobiology of infant pain and, 36

General anesthesia, for colon surgery, 52

Glycine receptors, neurobiology of infant pain and, 36

Granuloma, intrathecal catheter-tip formation, spinal cord compression from, 237

Great auricular nerve block, for very-low-birth weight neonate, 58

Greater occipital nerve block, for very-low-birth weight neonate, 58

Hand surgery, infraclavicular motor responses to neurostimulation, 125

Headache management, for pain specialist, 462

Head-up tilt, after stellate ganglion block, effect on QT interval and dispersion, 317

Hearing loss, after spinal anesthesia, 430

Hematoma formation, after neuraxial blocks in cancer patients, 378(letter)

Hepatic disease, maximum recommended doses for local anesthetics, 564

Herpes zoster, neuraxial and sympathetic blocks in, 454

History

- contributions of Dr. George Crile, 600
- of Mayo Clinic connection for Gaston Labat and John Lundy, 489

Holter monitoring, of ECG effects of ropivacaine with bupivacaine interscalene brachial plexus block, 557

Home infusion, perineural, 1

Horner's syndrome, after brachial plexus block, 378(letter)

Humeral nerve block with multiple nerve stimulation, pain perceptions during, 328

Hustead tip needles, ultrasound visibility of, 480

Hydromorphone, intraspinal catheter-tip inflammatory mass, spinal cord compression and, 237

Hyperalgesia

- barbiturate, 70(letter)

pain management for chronic opioid-consuming patients, 576

Hyperbaric solution, vs. hypobaric solution, low-dose bupivacaine for unilateral spinal anesthesia, 17

Hyperventilation, and panic attacks may mimic local anesthesia toxicity, 617(letter)

Hypnosis, modulation of fMRI signal intensities and pain perception in thermal stimulation paradigm, 549

Hypobaric solution, vs. hyperbaric solution, low-dose bupivacaine for unilateral spinal anesthesia, 17

Infants

- neurobiology of pain, 36
- very-low-birth weight neonate, regional anesthesia for, 58

Infection

- intrathecal pump catheter-related, transverse myelitis and, 503(letter)
- from neuraxial anesthesia, 341

Infraclavicular plexus block

- best approach for, 520
- coracoid, median vs. musculocutaneous nerve response to, 534
- coracoid single-injection, median vs. musculocutaneous nerve response, 534
- distal vs. proximal stimulation, 520
- interpreting motor responses to neurostimulation, 125
- modified Raj technique, diaphragmatic excursion and respiratory function after, 110
- motor responses, to brachial plexus neurostimulation, interpretation of, 618(letter)
- neurostimulation, evaluation of motor responses to, 505(letter)

Inguinal herniotomy, ketamine with bupivacaine for caudal anesthesia, 28

Injectate

- electrophysiologic effects on peripheral nerve stimulation, 189
- flush, electrophysiologic effects, stimulating catheter and, 509(letter)
- spread, needle tip placement and, 194

Injectional techniques, instructional courses for, 377(letter)

Injectionists, vs. pain medicine specialists, 305, 621(letter)

Injection pressure for intraneuronal injection, fascicular injury, neurologic deficits and, 417

Interscalene brachial plexus block

- at-home, lower lobe collapse during, 65
- continuous perineural ropivacaine, dosing regimens for, 9
- with ropivacaine and bupivacaine, 557
- ropivacaine vs. bupivacaine for, 539

Intraneuronal injection with high injection pressure, fascicular injury, neurologic deficits and, 417

Intraspinal drug therapy, inflammatory mass from, spinal cord compression and, 237

Intrathecal blocks

- catheter-related infection, transverse myelitis associated with *Acinetobacter baumanii*, 503(letter)
- for herpes zoster and postherpetic neuralgia, 454

Intrathecal catheter

- implantation, traumatic syrinx after, 606
- inflammatory mass, spinal cord compression from, 237

Intrinsic obstetric palsy, from neuraxial anesthesia, 341

KA receptors, neurobiology of infant pain and, 36

Ketamine, with bupivacaine for caudal anesthesia, 28

Labat, Gaston, historical perspective on, 489

Labor analgesia, neurologic deficits and, 341

Laparoscopic colon surgery, anesthesia and analgesia for, 52

Lateral approach, popliteal block, vs. midfemoral sciatic nerve block, 23

Lateral cord stimulation, infraclavicular plexus block, 125

Lateral femoral cutaneous neuropathy, from neuraxial anesthesia, 341

Lateral popliteal nerve block, with ultrasound guidance, 507(letter)

Lesion size, reproducibility after radiofrequency facet denervation, 400

Levobupivacaine vasoactivity, epinephrine adjuvant concentration and, 307

Lidocaine

- in Bier block for complex regional pain syndrome, 408
- intrathecal, comparative neurotoxicity in rats, 446
- transdermal, for postherpetic neuralgia, 75(letter)

Lidoderm patch, for postherpetic neuralgia, 75(letter)

Lipid emulsions, for prevention of bupivacaine toxicity, 73(letter), 74(letter)

Lithotomy position, cauda equina syndrome and, 234

Local anesthetics

- maximum recommended doses, 524, 564
- myotoxicity, 333
- systemic toxicity, 116
- toxicity mimicked by panic attacks and hyperventilation, 617(letter)
- tricyclic antidepressants as, 286
- vasoactivity, epinephrine adjuvant concentration and, 307

Long-acting spinal anesthesia, high-volume intrathecal amitriptyline for, 434

Low-back pain. *See* Back pain

Lumbar epidural block, failed or inadequate, accidental subdural injection and, 45

Lumbar plexus block

- catheter tip position, fluoroscopic determination of, 72(letter)
- misplacement of psoas compartment catheter in subarachnoid space, 60

Lumbosacral plexus injury, from neuraxial anesthesia, 341

Lundy, John, historical perspective on, 489

Machado-Joseph disease, combined spinal-epidural technique for vaginal hysterectomy in, 352

Magnetic resonance imaging

- evaluation of handheld ultrasound machine in localizing sciatic nerve, 413

of thigh rotation in anterior sciatic nerve block, 32
 of traumatic syrinx after intrathecal catheter implantation, 606

Maximum recommended doses, for local anesthetics, 524, 564

Mayo clinic, historical perspective on, 489

Medicare surgical patients, morbidity/mortality, postoperative epidural analgesia and, 525

Medication-overuse headache management, for pain specialist, 463

Mepivacaine
 axillary and humeral blocks using multiple stimulations, pain perception during, 328
 intrathecal, comparative neurotoxicity in rats, 446
 sympathetic block in dogs, dexmedetomidine effect on, 323

Methylprednisolone
 in Bier block for complex regional pain syndrome, 408
 duration of axillary plexus block and, 380(letter)

Midfemoral block, sciatic nerve, vs. lateral popliteal block, 23

Midhumeral nerve block, with multiple nerve stimulation, pain perceptions during, 328

Migraine management, for pain specialist, 462

Mitral stenosis, during pregnancy, anesthetic and analgesic management during, 610

Modified Raj technique, infraclavicular plexus block, diaphragmatic excursion and respiratory function after, 110

Morbidity, of Medicare surgical patients, postoperative epidural analgesia and, 525

Morphine
 intrathecal, inflammatory mass formation, spinal cord compression from, 237
 with intrathecal baclofen, 269
 patient-controlled analgesia, vs. femoral or psoas compartment nerve block, 102
 with spinal ropivacaine vs. bupivacaine for cesarean delivery, 221

Mortality
 after noncardiac surgery, postoperative epidural analgesia and, 515
 of Medicare surgical patients, postoperative epidural analgesia and, 525

Multimodal management, of perioperative pain, 380(letter)

Multiple nerve stimulation, axillary and humeral blocks, pain perceptions during, 328

Muscle twitches, elicited during infraclavicular plexus block, 125 !

Myotoxicity, of local anesthetics, 333

Needle
 percutaneous electrode guidance for axillary plexus block, 206
 position for selective nerve root block, 616(letter)
 for regional nerve block, ultrasound visibility of, 480
 resistance, injection pressures during simulated peripheral nerve block, 201
 in situ images of thoracic paravertebral space, 596

tip placement, injectate spread in sciatic nerve block and, 194

Nerve blocks. *See also specific types of nerve blocks*
 for headache management, 463
 learning curve for simulated ultrasound guidance interventional task, 544

Nerve injuries, after regional anesthesia, 361

Nerve-needle distance, injectate spread in sciatic nerve block and, 194

Nerve root blocks, selective, for low back pain and radiculopathy, 243

Nerve root injury, from neuraxial anesthesia, 341

Nerve stimulation
 electrophysiologic effects of injectates on, 189
 locating target nerve and injectate spread in sciatic nerve block, 194
 median vs. musculocutaneous response, single-injection infraclavicular coracoid block and, 534
 minimal current, for cervical paravertebral catheter placement, 230
 multiple, during axillary and humeral blocks, pain perceptions during, 328
 technical aspects, 185
 for thoracic epidural catheter caudal insertion in children, 92

Nerve trauma risk, from peripheral nerve stimulators, 185

Neuraxial anesthesia, complications from, 341

Neuraxial blocks
 in aortic stenosis, 496
 hematoma formation in cancer patients, 378(letter)

Neurologic deficits
 high injection pressure and intraneurial injection and, 417
 labor analgesia and, 341

Neurolysis, nerve-needle distance, injectate spread in sciatic nerve block and, 194

Neurolytic celiac plexus blocks, preventability of complications, 377(letter)

Neurosonography, for difficult lateral popliteal catheter insertion in peripheral vascular disease, 368

Neurostimulation
 to brachial plexus, interpreting infraclavicular motor responses, 618(letter)
 distal vs. proximal for infraclavicular block, 520
 infraclavicular motor responses to, 125, 505(letter)

Neurosurgery, regional anesthesia, for very-low-birth weight neonate, 58

Neurotoxicity, of high-volume intrathecal amitriptyline, 434

NMDA receptors, neurobiology of infant pain and, 36

Noncardiac surgery mortality, postoperative epidural analgesia and, 515

Obesity, cervical paravertebral block for shoulder surgery, 227

Obturator nerve injury, from neuraxial anesthesia, 341

Opioid addiction, pain management and, 576

Opioid analgesia
 after colon surgery, 52
 for laparoscopic cholecystectomy, 424
 for very-low-birth weight neonate, 58

Pain. *See also specific pain management techniques*

- chronic opioid-consuming patients, 576
- neurobiology in infants, 36
- perception
 - during axillary and humeral blocks using multiple stimulations, 328
 - clinical hypnosis modulation in thermal stimulation paradigm, 549
- Pain medicine specialists
 - headache management for, 463
 - vs. injectionists, 305, 621(letter)
- Panic attacks, and hyperventilation may mimic local anesthesia toxicity, 617(letter)
- Paraforaminal injection, for selective nerve root block, 616(letter)
- Paravertebral block, in situ imaging for, 596
- Paresthesia, causes of, 69(letter)
- Pathomechanics, of local anesthetic myotoxicity, 333
- Patient-controlled analgesia
 - interscalene perineural ropivacaine infusion and, 9
 - vs. femoral or psoas compartment nerve block, 102
- Patient education, to alleviate fears/misperceptions of regional anesthesia, 96
- Pediatric patients. *See Children; Infants*
- Percutaneous electrode guidance, for axillary plexus block, 206
- Percutaneous retrogasserian glycerol rhizotomy, success rate, effect of CSF return on, 592
- Perineural catheter placement, complications, 174(letter)
- Perineural infusion
 - at-home, 1
 - continuous interscalene block, ropivacaine dosing regimens for, 9
- Perioperative pain management
 - in chronic opioid-consuming patients, 576
 - education, 382(letter)
 - multimodal, 380(letter)
- Peripheral nerve block
 - continuous, fluoroscopic determination of catheter tip position for, 72(letter)
 - infraclavicular motor responses to neurostimulation, 125
 - injection pressure, subjective perceptions of, 201
 - ultrasound visibility of needles for, 480
 - for very-low-birth weight neonate, 58
- Peripheral nerve stimulation. *See Nerve stimulation*
- Peripheral opioid receptors, analgesia for laparoscopic cholecystectomy, 424
- Peripheral stimulating catheters, vs. nonstimulating catheter guidance for femoral nerve block, 212
- Peripheral vascular disease, ultrasound guidance for difficult lateral popliteal catheter insertion, 368
- Peroneal nerve injury, from neuraxial anesthesia, 341
- Phantom-limb sensations
 - assessment, 172(letter)
 - late-onset during regional anesthesia, 168
 - somatosensory memory of former pain and, 383(letter)
- Pharmacokinetics, maximum recommended doses for local anesthetics, 564
- Phrenic nerve paresis, for shoulder surgery in obese patient, 227
- Piriformis syndrome, after cesarean section under spinal anesthesia, 364
- Pneumothorax, after shoulder arthroscopy, 382(letter)
- Popliteal block, lateral vs. midfemoral sciatic nerve block, 23
- Popliteal catheter, difficult lateral insertion in peripheral vascular disease, ultrasound guidance for, 368
- Popliteal sciatic nerve block
 - accuracy of ultrasound localization for, 413
 - late-onset phantom-limb sensation during, 168
 - modified posterior approach for, 290
 - ultrasound imaging of, 130
- Portable infusion pumps, accuracy, reliability and characteristics of, 371
- Positioning, cauda equina syndrome and, 234
- Postdural puncture headache
 - management, historical aspects of, 136
 - minimizing by insertion of epidural catheter, 299(letter)
- Postherpetic neuralgia
 - lidoderm patch for, 75(letter)
 - neuraxial and sympathetic blocks in, 454
- Postoperative analgesia
 - bupivacaine vs. ropivacaine for interscalene brachial plexus block, 539
 - total-hip arthroplasty, patient-controlled morphine vs. nerve block, 102
- Postoperative delirium, as outcome of regional anesthesia and analgesia, 257
- Postoperative epidural analgesia
 - effect on morbidity and mortality following surgery in Medicare patients, 525
 - mortality after noncardiac surgery, 515
- Postoperative period
 - at-home perineural infusions, 1
 - barbiturate hyperalgesia, 70(letter)
 - cognitive function as regional anesthesia/analgesia outcome indicator, 257
 - continuous interscalene perineural ropivacaine, 9
 - epidural analgesia, morbidity/mortality of Medicare patients and, 525
 - evidence-based case reports for colon surgery, 52
- PQ interval, interscalene brachial plexus block with ropivacaine and bupivacaine, 557
- Pregnancy
 - management of mitral stenosis during, 610
 - maximum recommended local anesthetic doses, 564
- Prilocaine, intrathecal, comparative neurotoxicity in rats, 446
- Psoas compartment block
 - catheter misplacement in subarachnoid space, 60
 - continuous, reliability of, 172(letter)
 - femoral nerve injury from, 361
 - vs. patient-controlled analgesia after total-hip arthroplasty, 102
- Public perception, of regional anesthesia, 96
- Pulmonary aspiration risk, combined spinal-epidural technique for vaginal hysterectomy and, 352

QT interval and dispersion, head-up tilt after stellate ganglion block and, 317

Radial nerve, percutaneous electrode guidance for axillary plexus block, 206

Radiculopathy, selective nerve root blocks for, 243

Radiofrequency lumbar facet denervation, 400

Radiography

- accidental subdural injection during lumbar epidural block, 45
- misplacement of psoas compartment catheter in subarachnoid space, 60

Raj test, electrophysiologic effects of injectate on peripheral nerve stimulation, 189

Regional anesthesia

- in aortic stenosis, 496
- for colon surgery, 52
- fears and perceptions of, 96
- infectious complications, 70(letter)
- intravenous. *See* Bier block
- late-onset phantom-limb sensation during, 168
- maximum recommended doses for local anesthetics, 564
- nerve injuries after, 361
- outcome, postoperative cognitive function and, 257
- public perception of, 86
- risks, tort reform and, 116
- ultrasound visibility of needles for, 480
- for very-low-birth weight neonate, 58

Renal disease, maximum recommended doses for local anesthetics, 564

Respiratory function, after modified Raj infraclavicular block, 110

Ropivacaine

- axillary and humeral blocks using multiple stimulations, pain perception during, 328
- with bupivacaine, for interscalene brachial plexus block, ECG effects, 557
- cervical paravertebral block for obese patient, 227
- dosage, cervical plexus block for carotid endarterectomy, 312
- interscalene nerve block
 - at-home, lower lobe collapse during, 65
 - perineural, dosing regimens for, 9
- lateral popliteal vs. midfemoral sciatic nerve block, 23
- popliteal nerve block, late-onset phantom-limb sensation during, 168
- vs. bupivacaine
 - for cesarean delivery, 221
 - for duration and magnitude of arterial blood flow and, 441
 - for interscalene brachial plexus block, 539

Sacroiliitis, after spinal anesthesia for cesarean section, 364

Sciatic nerve block

- anterior approach, thigh rotation and, 32
- locating target nerve and injectate spread in, 194
- midfemoral approach, vs. lateral popliteal block, 23
- popliteal

posterior approach for, 290

- ultrasound imaging of, 130

ultrasound guidance

- accuracy of, 413
- for difficult lateral popliteal catheter insertion, 368

Sciatic nerve injury, from neuraxial anesthesia, 341

Selective nerve root block

- for low back pain and radioculopathy, 243
- needle position for, 616(letter)

Sensory impairment

- comparative neurotoxicity of local anesthetics, 446

Shoulder arthroscopy, pneumothorax after, 382(letter)

Shoulder surgery

- cervical paravertebral block for obese patient, 227
- interscalene brachial plexus block, ropivacaine vs. bupivacaine for, 539

Single-injection block needles, characteristics in biologic models, 476

Single-injection infraclavicular coracoid block, median vs. musculocutaneous nerve response, 534

Skeletal muscle toxicity, of local anesthetics, 333

Sodium channel blockade, by antidepressants, 277

Somatosensory memory of former pain, phantom-limb-like sensations and, 383(letter)

Spasticity, intrathecal baclofen for, 269

Spinal analgesia, intrathecal baclofen for, 269

Spinal anesthesia

- for cesarean section, piriformis syndrome after, 364
- hearing loss after, 430
- high-volume intrathecal amitriptyline for, 434
- history of, 136
- lithotomy position, causing cauda equina syndrome, 234
- low-dose hyperbaric vs. hypobaric bupivacaine, 17
- ropivacaine vs. bupivacaine for cesarean delivery, 221
- unilateral distribution, 4

Spinal cord compression, from intrathecal catheter-tip inflammatory mass, 237

Spinal-cord injury, after transforaminal epidural injection, 494

Spinal cord stimulation, conversion disorder mimicking Dejerine-Roussy syndrome after, 164

Spinal dorsal horn, neurobiology of infant pain and, 36

Spinal epidural hematoma, from neuraxial anesthesia, 341

Spinal-epidural technique, for vaginal hysterectomy in Machado-Joseph disease patient, 352

Spinal needle design, unilateral spinal block and, 4

Spinal stenosis, caused by synovial cysts and lithotomy position, 234

Spinocerebellar ataxia, combined spinal-epidural technique for vaginal hysterectomy in, 352

Stellate ganglion block, effect of head-up tilt on QT interval and dispersion, 317

Steroid injection, foraminal, paralysis after, 494

Steroids, transforaminal injection, 397

Stimulating catheter

- electrophysiologic effect of flush injectates and, 509(letter)
- minimal current for continuous peripheral nerve block placement, 230

- Subarachnoid catheters, safety of, 298(letter)
- Subarachnoid space, misplacement of psoas compartment catheter in, 60
- Subdural block, perforation of dura, 7
- Subdural space injection, accidental, as failed or inadequate block, 7, 45
- Supraclavicular block, new approach, landmarks for, 72(letter)
- Supraorbital nerve block, for very-low-birth weight neonate, 58
- Suprascapular nerve block, alternative method for placing continuous nerve block catheter, 75(letter)
- Sympathetic block
 - dexmedetomidine effect on mepivacaine-induced vasodilation, 323
 - for herpes zoster and postherpetic neuralgia, 454
 - ropivacaine vs. bupivacaine, 441
- Sympathetic efferent axon activation, in paresthesia, 69(letter)
- Synovial cysts, cauda equina syndrome and, 234
- Tension-type headache management, for pain specialist, 463
- Thalamic stroke, mimicked by conversion disorder after spinal cord stimulation, 164
- Thoracic epidural catheter
 - caudal insertion using electrical nerve stimulator in children, 92
 - placement in children, 83
- Thoracic paravertebral space, in situ images, 596
- Tolerance, pain management for chronic opioid-consuming patients, 576
- Tort reform, regional anesthesia risks and, 116
- Total-hip arthroplasty, patient-controlled morphine vs. nerve block for, 102
- Toxicity, maximum recommended local anesthetic doses, 564
- Transcutaneous electrical stimulation
 - for catheter-guided perineural placement, 212
 - for placing continuous suprascapular nerve block catheter, 75(letter)
- Transforaminal epidural injection, paralysis after, 494
- Transforaminal injection
 - for selective nerve root block, 616(letter)
 - of steroids, 397
- Transient neurologic syndrome, from neuraxial anesthesia, 341
- Transverse myelitis, associated with *Acinetobacter baumannii* intrathecal pump catheter-related infection, 503(letter)
- Trauma, from neuraxial anesthesia, 341
- Traumatic syrinx, after intrathecal catheter implantation, 606
- Tremor, during axillary brachial plexus block, 510(letter)
- Tricyclic antidepressants, local anesthetic properties of, 286
- Trigeminal neuralgia, percutaneous retrogasserian glycerol rhizotomy success rate, effect of CSF return on, 592
- Triptans, for migraine management, 463
- Turkey breast model ultrasound guidance interventional task, learning curve for, 544
- Ulnar nerve block, ultrasound-guidance for, 297(letter)
- Ultrasound guidance
 - accuracy for sciatic nerve localization, 413
 - for difficult lateral popliteal catheter insertion in peripheral vascular disease, 368
 - for lateral popliteal nerve block, 507(letter)
 - misplacement of psoas compartment catheter in subarachnoid space, 60
 - for peripheral nerve localization in popliteal sciatic nerve block, 130
 - simulated interventional learning task, learning curve for, 544
 - ulnar nerve block in presence of superficial ulnar artery, 297(letter)
 - visibility of needles used for regional nerve block, 480
- Vaginal hysterectomy in Machado-Joseph disease patient, combined spinal-epidural technique for, 352
- Vascular catastrophes, from neuraxial anesthesia, 341
- Vasoconstriction, epinephrine adjuvant concentration effects on local anesthetics, 307
- Vasodilation induced by mepivacaine, dexmedetomidine effect on, 323
- Vestibulocochlear dysfunction, after spinal anesthesia, 430

Author Index: Volume 29, 2004

Abram, Stephen E., 234, 269
 Aguilar, Jose L., 23
 Ahmed, Nadeem, 596
 Akinturk, Yavuz, 539
 Aldrete, J. Antonio, 621 (letter)
 Alemano, Fernando, 72 (letter)
 Al-Nasser, Bassam, 172 (letter), 361
 Álvarez, Julián, 534
 Alvarez, Nancy A., 75 (letter)
 Anderson, Gerard F., 525
 Angst, Martin S., 576
 Anthony, Douglas C., 434
 Ashkenazi, Avi, 462
 Aslan, Asim, 430
 Aslan, Kemal, 17
 Atanassoff, Peter G., 23
 Aubus, Pierre, 102
 Avidan, Alexander, 72 (letter), 378 (letter)
 Ayad, Sabry, 299 (letter)

Babacan, Avni, 381 (letter)
 Bacon, Douglas R., 81, 489
 Bárcena, María, 534
 Bateman, Kendall, 355
 Beach, Michael L., 413
 Beilin, Yaakov, 298 (letter)
 Belch, Jill J.F., 307
 Bellig, Gregory, 58
 Benhamou, Dan, 368
 Benzon, Honorio T., 397
 Bernard, Nathalie, 206
 Bernstein, Howard H., 298 (letter)
 Berti, Marco, 221
 Biboulet, Philippe, 102, 206
 Birnbach, David, 86
 Bithal, Parmod K., 592
 Blike, George, 544
 Blumenthal, Stephan, 110, 290
 Blumenthal, Stephan, 557
 Boezaart, André P., 125, 227, 230, 507 (letter), 620 (letter)
 Borene, Steven C., 125, 507 (letter), 620 (letter)
 Borgeat, Alain, 110, 290, 557
 Bouliane, Martin, 355
 Bravo-Fernandez, Caridad, 380 (letter)
 Breslin, Dara S., 70 (letter)
 Bringuier-Branchereau, Sophie, 102
 Brown, David L., 116
 Buckenmaier, Chester C., 596
 Buijs, Evert J., 400
 Camu, Frédéric, 312
 Capdevila, Xavier, 102, 206

Capozzoli, Giuseppe, 72 (letter)
 Carli, Franco, 515
 Carrera, Ana, 618 (letter)
 Carrero, Gilberto, 69 (letter)
 Carroll, Ian R., 576
 Casati, Andrea, 4
 Castro, Jose, 201
 Chakrabarti, Anil J., 65
 Chan, Vincent W.S., 130
 Chaturvedi, Arvind, 592
 Chelly, Jacques E., 1
 Cheung, Yvonne, 413
 Chidsey, Larry K., 9
 Chinzei, Mieko, 92
 Choquet, Olivier, 206
 Chouhan, Rajendra S., 592
 Clark, J. David, 576
 Claudio, Richard, 201
 Coetzee, Gert J., 75 (letter)
 Collier, Clive B., 45
 Coriat, Pierre, 168, 384 (letter)
 Cornini, Andrea, 221
 Cosovic, Esad, 417
 Coventry, David M., 174 (letter)
 Cravero, Joseph, 544
 Crespo, María T., 23

Dadure, Christophe, 206
 Danelli, Giorgio, 221
 Dang, Charles Pham, 509 (letter)
 D'Angelo, Robert, 606
 Dash, H.H., 592
 Datta, Sukdeb, 503 (letter), 616 (letter)
 Dauri, Mario, 379 (letter)
 Davidson, Elyad, 72 (letter)
 de Beer, Joe F., 75 (letter)
 Debing, Erik E., 312
 De Girolami, Umberto, 434
 Delbos, Alain, 290
 Denny, Nicholas M., 65, 476
 Desai, Sukumar P., 434
 Deva, Charu, 378 (letter)
 Dilberovic, Faruk, 417
 Dill, Darin W., 510 (letter)
 Dincer, Kemal, 408
 Divanovic, Kucuk-Alija, 417
 Dobrogowski, Jan, 424
 Dullenkopf, Alexander, 110
 Dunbar, Burdett, 81
 Durieux, Marcel E., 277

Edwards, John N., 125, 507 (letter)
 Egarter-Vigl, Eduard, 72 (letter)
 Egawa, Hirotoshi, 317

Ekatodramis, Georgios, 557
 Enneking, F. Kayser, 9, 371
 Erbunun, Koray, 430
 Erciyes, Nesrin, 539
 Eroglu, Ahmet, 539
 Estafanous, Fawzy G., 600

Fanelli, Andrea, 221
 Fanelli, Guido, 4, 221
 Ferrante, F. Michael, 164
 Ferrante, Margaret A., 164
 Fessemeyer, Christine, 368
 Finegan, Barry A., 96
 Finucane, Brendan T., 96, 189, 355
 Fitzgerald, Maria, 36
 Fleisher, Lee A., 525
 Fujii, Koichi, 317

Gajraj, Noor M., 243, 617 (letter)
 Gallagher, John D., 413, 544
 Gentili, Marc E., 172 (letter)
 Gerancher, J.C., 385, 510 (letter), 520
 Gerner, Peter, 75 (letter), 286, 434
 Geurts, Jos W.M., 400
 Gielen, Matthieu J.M., 505 (letter)
 Gogia, Anoop Raj, 28
 Gokce, Melis, 381 (letter)
 Gombar, Kanti, 378 (letter)
 Gombar, Satinder, 378 (letter)
 Goodman, Evan J., 380 (letter)
 Goor, Odelia, 73 (letter)
 Goor, Yoav, 73 (letter)
 Goy, Raymond W.L., 352
 Graf, Bernhard M., 333
 Grant, Stuart A., 70 (letter)
 Gray, Andrew T., 297 (letter), 480, 507 (letter)
 Groen, Gerbrand G., 400
 Groen, Gerbrand J., 505 (letter)
 Gunaydin, Berrin, 381 (letter)
 Gupta, Poonam, 28

Hackbarth, Mark A., 377 (letter)
 Haderer, Anna E., 434
 Hadzic, Admir, 185, 201, 417
 Hamaguchi, Shinsuke, 317, 323, 441
 Hanaoka, Kazuo, 92
 Harney, Donal, 606
 Harrington, Brian E., 136
 Harrop-Griffiths, A. William, 476
 Heavner, James E., 524
 Heller, Axel R., 60

Herbert, Robert, 525
 Herrick, Martin J., 476
 Hogan, Quinn, 70 (letter)
 Hoka, Sumio, 446
 Holbrook, Curtis R., 380 (letter)
 Hsu, Wesley, 257
 Huczko, Eric L., 507 (letter)
 Hugo, Stephan, 70 (letter)
 Huntsoon, Marc A., 494
 Hurford, William, 503 (letter)
 Hurley, Robert W., 525

Ilfeld, Brian M., 9, 371

Jack, Nigel T.M., 505 (letter)
 Jagia, Manish, 592

Kadiogullari, Nihal, 17
 Kalyon, Tunc Alp, 408
 Kanamori, Yutaka, 92
 Kapur, Eldan, 417
 Karovic, Dirk, 290
 Kaul, Bupesh, 364
 Kaya, MenÔure, 17
 Khan, Faisel, 307
 Kimura, Yoshiyuki, 323, 441
 Kitajima, Toshimitsu, 317, 323
 Klein, Stephen M., 173 (letter), 596
 Knape, Johannes Th.A., 505 (letter)
 Koorn, Robert, 227, 230
 Kopacz, Dan J., 212
 Koscielniak-Nielsen, Zbigniew J., 201, 328
 Krings, Timo, 549
 Krone, Karen, 454
 Kulenovic, Amela, 417
 Kumar, Vasantha, 454

Lacava, Luigi, 221
 Lake, Alfred P.J., 70 (letter)
 Lambert, Donald, 299 (letter)
 Launcelott, Gordon O., 380 (letter)
 Lautensheiser, Fred, 600
 Lauwick, Séverine, 168, 384 (letter)
 Leddell, Courtney, 230
 Le Guen, Morgan, 168, 384 (letter)
 Lindenberg, Judah R., 504 (letter)
 Litz, Rainer J., 60
 Liu, Spencer S., 52, 212
 Llusá, Manel, 618 (letter)
 Lopez, Sandrine, 206
 Lundberg, Johan, 544
 Lynch, Andy, 476

MacLeod, David B., 70 (letter)
 Mariano, Dean J., 364
 Martin, David P., 494
 Martin, Gavin, 70 (letter)
 Massicotte, Eric M., 237
 Mathieu, Alix, 454

Matthey, Peter W., 96
 McCartney, Colin J.L., 382 (letter)
 McCulloch, Charles E., 480
 McDonald, Susan B., 496
 McLeod, Graeme A., 307
 Meister, Ingo G., 549
 Miller, Chantelle, 227
 Minami, Junichi, 317
 Minville, Vincent, 368
 Moore, Colin Scott, 32
 Moore, Daniel C., 377 (letter)
 Moorthy, Sreenivasa S., 510 (letter)
 Morau, Didier, 102
 Morey, Timothy E., 9, 371
 Mornjakovic, Zakira, 417
 Moro, Blanca, 23
 Morro, Rosa, 618 (letter)
 Motaïs, Frédéric, 206

Nagao, Masaru, 441
 Nara, Yoshihiro, 446
 Narouze, Samer, 299 (letter)
 Neal, Joseph M., 90, 135, 212
 Newton, David J., 307
 Nielsen, Karen C., 173 (letter), 596
 Nielsen, Peter T., 328
 Nuzzi, Massimiliano, 221

Oguz, Selma, 17
 Ok, Gulay, 430
 Oldman, Matthew, 382 (letter)
 Ozgul, Ahmet, 408
 Ozturk, Ertan, 381 (letter)

Pai, Umeshhraya, 616 (letter)
 Palacios, Jean Luc, 361
 Palanca, Jose M., 23
 Palmer, Craig, 7
 Pan, Peter H., 610
 Panjabi, Neelambari, 28
 Paqueron, Xavier, 168, 172 (letter), 384 (letter)
 Pattinson, Damian, 36
 Peng, Philip, 237, 382 (letter)
 Perschak, Henry, 110
 Pietrobon, Ricardo, 173 (letter)
 Pollock, Julia E., 115
 Prabhakar, Hemanshu, 592
 Prakash, Smita, 28
 Pritchard, Mark G., 75 (letter)
 Pulido, Juan N., 489

Raja, Srinivasa N., 257
 Ramanathan, Sivam, 364
 Rana, Maunak V., 164
 Rasmussen, Henrik, 328
 Rathmell, James P., 305, 397
 Rettke, Steven R., 489
 Rex, Stefen, 549
 Richman, Jeffrey M., 257

Rodríguez, Jaime, 534
 Roos, Justus, 110
 Rosenberg, Per H., 564
 Rosenblatt, Meg A., 298 (letter)
 Rossaint, Rolf, 549
 Rowlingson, Andrew J., 525
 Rupp, Frederick W., 234

Sah, Neera, 364
 Sala-Blanch, Xavier, 618 (letter)
 Salinas, Francis V., 212, 512
 Santos, Alan C., 201, 417
 Sardesai, Anand M., 65, 476
 Sawamura, Shigehito, 92
 Schaefhalter-Zoppoth, Ingeborg, 297 (letter), 480, 507 (letter)
 Schmedding, Eric, 312
 Schulz-Stübner, Sebastian, 549, 617 (letter)
 Sener, Muhittin, 539
 Shah, Shruti, 417
 Sheppard, Declan, 32
 Shih, Henry, 201
 Sidiropoulou, Tatiana, 379 (letter)
 Silberstein, Stephen D., 462
 Sinha, Avinash, 130
 Sites, Brian D., 413, 544
 Slonimski, Marc, 269
 Stan, Thomas, 380 (letter)
 Steele, Susan M., 173 (letter), 596
 Stolker, Robert J., 400
 Strumper, Danja, 277
 Sudoh, Shinji, 434
 Sudoh, Yukari, 434
 Sueda, Lila A., 212
 Sund, Gregory, 302
 Sung, Duk Hyun, 194
 Suresh, Santhanam, 58, 83

Taboada-Muñiz, Manuel, 534
 Takahashi, Yoshiyuki, 441
 Takeda, Kenji, 92
 Takenami, Tamie, 446
 Tamai, Hisayoshi, 92
 Tan, Arif Kenan, 408
 Taskaynatan, Mehmet Ali, 408
 Tekin, Idil, 430
 Tenhundfeld Fear, Kathleen M., 227
 Teo, Alvin Y.H., 352
 Tetzlaff, John E., 299 (letter), 600
 Tezuka, Masatomo, 323, 441
 Theodorou, Panagiotis, 110
 Thron, Armin, 549
 Thys, Daniel M., 201, 417
 Timperley, Jane, 174 (letter)
 Tok, Demet, 430
 Tomek, Ivan, 413
 Triadó, Vicente Domino, 23
 Tsui, Ban C.H., 189, 355

Ubogu, Eroboghene E., 504 (letter)
Umbraim, Vincent J., 312
Urmey, William F., 564
Uzunlar, Halil, 539

Vallejo, Manuel C., 364
van den Brande, Pierre M., 312
van Gorp, Viola L., 312
van Rooyen, Karen, 75 (letter)
van Wijk, Roelof M.A.W., 400
Veering, Bernadette Th., 564
Vicent, Oliver, 60
Victor, Raymond, 606
Vienné, Patrick, 290
Vloka, Jerry D., 201
von Kemp, Karl, 312
Vuckovic, Ilvana, 417

Wagner, Alese, 189
Walega, David R., 77
Wang, Ging Kuo, 75 (letter), 434
Warner, David S., 173 (letter)
Weeseman, Rolf R., 400
Wehling, Merlin J., 230
Weinberg, Guy, 74 (letter)
Weller, Robert S., 510 (letter), 520
Werz, Mary Ann, 504 (letter)
Whitman, Sarah M., 383 (letter)
Wiesel, Saul, 234
Wiessner, Diana, 60
Wildsmith, John Anthony W., 32
Williams, Brian A., 1
Wills, John H., 234
Wnek, Włodzimierz, 424
Wong, Cynthia A., 341

Woon, Yeo Seow, 352
Wordliczek, Jerzy, 424
Wright, Thomas W., 9
Wu, Christopher L., 257, 525

Yagishita, Saburo, 446
Yamaguchi, Shigeki, 317, 323, 441
Yamazaki, Hajime, 441
Yeager, Mark P., 515

Zaciragic, Asija, 417
Zajaczkowska, Renata, 424
Zetlaoui, Paul Joseph, 368
Zink, Wolfgang, 333
Zuniga, Robert E., 269